

1

Abstract

2 A fuel cell uses porous metal layers attached on a flex substrate for delivery of
3 liquid fuel to the active catalytic areas on the anodic side. The flex substrate may
4 form an enclosed package such that the liquid fuel can be contained in the enclosed
5 volume and the air can freely exchange with the cathode side of the fuel cell
6 without the need of microchannels and plumbing for mass transporting both fuel
7 and oxygen to the active catalytic area. The porous metal provides a large surface
8 are for the catalytic reaction to occur.